



## The secular trend of suicide rate and the socio-economic, media, and climatic factors in Taiwan, 1976-2009: A population-based study

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### Abstract:

**INTRODUCTION:** The purpose of the present study was to explore the relationship between the secular trend of the suicide rate and the socio-economic, media, and climatic factors in Taiwan during 1976-2009. **METHODS:** The yearly suicide death rate, socio-economic (spouseless population, aged population, labor participation rate, unemployment rate, and gross national production), media (newspapers, television sets, and personal computer) densities, and climatic (temperature, rainfall, and sunshine) factors were gathered. Pearson's correlation coefficients between variables were calculated, and stepwise multiple regression analysis was conducted. **RESULTS:** Percentage of the spouseless and elderly population, labor participation rate, unemployment rate, and densities of newspapers and personal computer were significantly associated with suicide rate. Multiple regression chose spouseless population, labor participation rate, and unemployment rate to explain 96.1% of the variance of the suicide rate ( $F((3,22))$  Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin) 178.996,  $p$  Euro Surveillance (Bulletin European Sur Les Maladies Transmissibles; European Communicable Disease Bulletin) 0.000). **CONCLUSIONS:** Socio-economic factors are important for the secular trend of suicide, while medium densities also play some roles.

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### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Precipitation, Solar Radiation, Temperature

**Temperature:** Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location:

resource focuses on specific location

Non-United States

# Climate Change and Human Health Literature Portal

**Non-United States:** Asia

**Asian Region/Country:** China

**Health Impact:** ☒

specification of health effect or disease related to climate change exposure

Injury, Mental Health/Stress, Other Health Impact

**Mental Health Effect/Stress:** Mood Disorder

**Other Health Impact:** suicide

**Population of Concern:** A focus of content

**Other Vulnerable Population:** Unemployed

**Resource Type:** ☒

format or standard characteristic of resource

Research Article

**Timescale:** ☒

time period studied

Time Scale Unspecified